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# The Third Wave

[illegible]

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## Leukotomy and Mental Illness

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## AlphaGo Zero and Superhuman Performance

Nature is a journal of science that publishes research on the natural world. AlphaGo Zero is a program that plays the game of Go, a board game for two players. Superhuman performance is a term used to describe a level of performance that is beyond human capabilities. [4]

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game  
superhuman

AlphaGo Zero superhuman  
AlphaGo Zero

AlphaGo Zero superhuman

Deepmind [5]

AlphaGo Master 五连胜 AlphaGo Master 四连胜 AlphaGo Master 三连胜  
AlphaGo Zero 二连胜 AlphaGo Master 二连胜 AlphaGo Master 一连胜

AlphaGo Zero 4 AlphaGo Master 4 AlphaGo Zero 6[6] 4  
AlphaGo Master 16 AlphaGo Zero 18 4  
AlphaGo Zero 14 16 45 4

1 Nature Magazine AlphaGo Deepmind AlphaGo Zero  
AlphaGo Master

2) AlphaGo Zero local trap  
AlphaGo Zero superhuman  
AlphaGo Zero

[AlphaGo Zero](#), [AlphaGo Master](#), [AlphaGo Master](#), [AlphaGo Master](#), [7], [Nature](#), [AlphaGo Zero](#), [AlphaGo Master](#), deep-learning, [AlphaGo Master](#)

AlphaGo Zero [8] superhuman AlphaGo Zero

AlphaGo 対汎用ヒューマン 対Deepmind AlphaGo 対AlphaGo

Figure 9: Comparison between AlphaGo and AlphaGo Zero [9].

Turing Machine AlphaGo AlphaGo Zero AlphaGo

Master围棋世界冠军 AlphaGo Zero 与 AlphaGo Zero 围棋世界冠军

围棋世界冠军 AlphaGo Zero 与 AlphaGo Zero 围棋世界冠军  
AlphaGo Zero 围棋世界冠军

AlphaGo Zero 围棋世界冠军

AlphaGo Zero: “Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled”

AlphaGo Zero 围棋世界冠军  
AlphaGo Zero

AlphaGo Zero SAE level 5 围棋世界冠军  
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[illegible][illegible][illegible][illegible]

[REDACTED]  
[REDACTED] [10] [REDACTED]

[illegible][illegible]

Turing Machine  
 Universal approximation theorem  
 ...

# Technological Singularity

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[illegible]

1949 leukotomy

[illegible]

Karl Popper

[illegible]









AlphaGo self-driving car

[illegible][illegible]

# Leukotomy AI: A Modern Approach

“AlphaGo Zero: AI: A Modern Approach” [20]

[illegible]

Chinese room

[illegible]

「『中國人』的『中國教育』」，  
「中國教育」的「中國人」

「中國教育」的「中國人」  
[21]

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1989 年「中國教育」的「中國人」  
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AlphaGo 「中國教育」的「中國人」 [22] Socratic 「中國教育」的「中國人」  
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2012 年 PISA 「中國教育」的「中國人」  
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competition 競爭

“ ” 2012

[24]

[25] Leukotomy

Technological Singularity AI: A Modern Approach

Karl Popper

The Development of Liberal Arts and Sciences



[illegible]





[illegible]